

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BRS	L1	9	barney adj michael.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 10:20		0	
2	BRS	L2	4	navarro adj alfonso.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 10:23		0	
3	BRS	L3	27	ryder adj david.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 10:24		0	
4	BRS	L4	74	hop adj acid	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 11:41		0	
5	BRS	L5	30	(hexahydro adj beta adj acid) or (hexahydro adj beta adj salt) or (tetrahydroiso adj alpha adj acid) or (tetrahydroiso adj alpha adj salt)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 11:42		0	
6	BRS	L6	21	hexahydrocolupulone	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 11:43		0	
7	BRS	L7	113	staphylococcus adj aureus	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 11:43		0	
8	BRS	L8	7909	lactobacillus	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 11:44		0	
9	BRS	L9	98	4 or 5 or 6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 11:44		0	
10	BRS	L10	0	9 same 7	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 11:44		0	
11	BRS	L12	0	9 same 8 same 7	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 11:45		0	
12	BRS	L11	11	9 same 8	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 11:45		0	
13	BRS	L13	70746	tampon or (wound adj dressing) or suppository or (disposable adj diaper) or (sanitary adj napkin)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 12:02		0	

	Type	L #	Hits	Search Text	Dbs	Time Stamp	Comments	Error Definition	Errors
14	BRS	L14	34017 43	fiber or film or foam or wood or pulp or (peat adj moss) or (aborbent adj material) or (superabsorbent adj polymer)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 12:03			0
15	BRS	L15	13	(13 or 14) same 9	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 12:22			0
16	BRS	L16	0	15 same 7 same 8	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 12:23			0
17	BRS	L17	0	9 same 7 same vaginal	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 12:24			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BRS	L1	74	hop adj acid	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 12:51			0
2	BRS	L2	30	(hexahydro adj beta adj acid) or (hexahydro adj beta adj salt) or (tetrahydroiso adj alpha adj acid) or (tetrahydroiso adj alpha adj salt)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 12:52			0
3	BRS	L3	23	hexahydrolupulone	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 12:52			0
4	BRS	L4	16269	staphylococcus adj aureus	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 12:53			0
5	BRS	L6	7909	lactobacillus	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 12:53			0
6	BRS	L7	1	5 same 6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 12:54			0
7	BRS	L5	8	(1 or 2 or 3) same 4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 12:55			0
8	BRS	L8	14	(1 or 2 or 3) same 6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/05/2 0 12:56			0

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA'
ENTERED AT

12:31:53 ON 20 MAY 2003

L1 267 S (HOP ACID) OR (HEXAHYDRO BETA ACID) OR (HEXAHYDRO
BETA SALT)
L2 233 S STAPHYLOCOCCUS AUREUS
L3 70678 S LACTOBACILLUS
L4 0 S L1 (P) L2 (P) L3
L5 0 S L1 (P) L2
L6 15 S HEXAHYDROLUPULONE
L7 212726 S STAPHYLOCOCCUS AUREUS
L8 0 S (L1 OR L6) (P) L2
L9 11 S (L1 OR L6) (P) L7
L10 1 S L9 (P) L3
L11 3 S (L1 OR L6) (P) L3
L12 3 DUPLICATE REMOVE L11 (0 DUPLICATES REMOVED)
L13 73509 S ABSORBENT OR TAMPON OR (WOUND DRESSING) OR
SUPPOSITORY OR (DI
L14 1 S L13 (P) (L1 OR L6)
L15 0 S L14 NOT (L10 OR L12)
L16 0 S VAGINAL (P) (L1 OR L6)
L17 0 S L7 (P) (BARRIER CONTRCEPTIVE)
L18 0 S (L1 OR L6) (P) (BARRIER CONTRCEPTIVE)

FILE 'CAPLUS' ENTERED AT 12:31:53 ON 20 MAY 2003
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FILE 'SCISEARCH' ENTERED AT 12:31:53 ON 20 MAY 2003
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FILE 'AGRICOLA' ENTERED AT 12:31:53 ON 20 MAY 2003

=> s (hop acid) or (hexahydro beta acid) or (hexahydro beta salt) or (tetrahydroiso alpha acid) or
3 FILES SEARCHED...

L1 267 (HOP ACID) OR (HEXAHYDRO BETA ACID) OR (HEXAHYDRO BETA SALT) OR
(TETRAHYDROISO ALPHA ACID) OR (TETRAHYDROISO ALPHA SALT) OR
HEXAHYDROCOLUPULONE

=> s staphylococcus aureus
L2 233 STAPHYLOCOCCUS AUREUS

=> s lactobacillus
L3 70678 LACTOBACILLUS

=> s l1 (p) l2 (p) l3
L4 0 L1 (P) L2 (P) L3

=> s l1 (p) l2
L5 0 L1 (P) L2

=> s hexahydrolupulone
L6 15 HEXAHYDROLUPULONE

=> s staphylococcus aureus
L7 212726 STAPHYLOCOCCUS AUREUS

=> s (l1 or l6) (p) l2
L8 0 (L1 OR L6) (P) L2

=> s (l1 or l6) (P) l7
L9 11 (L1 OR L6) (P) L7

=> s l9 (p) l3
L10 1 L9 (P) L3

=> d l10 1 ibib abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:283780 CAPLUS

DOCUMENT NUMBER: 134:300854

TITLE: Hop acids used for inhibition of Staphylococcus aureus

INVENTOR(S): Barney, Michael C.; Navarro, Alfonso L.; Ryder, David
S.

PATENT ASSIGNEE(S): Miller Brewing Company, USA

SOURCE: PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001026647	A1	20010419	WO 2000-US27927	20001010

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,

IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,
MG, MK, MN, MW, MX, MY, NZ, PL, PT, RO, RU, SD, SE, SI, SK,
SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,
KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1220665 A1 20020710 EP 2000-986192 20001010

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL

PRIORITY APPLN. INFO.: US 1999-158810P P 19991012
US 2000-664519 A 20000918
WO 2000-US27927 W 20001010

AB The present invention provides methods, products, and compns. for selectively inhibiting the growth of *S. aureus* without preventing the growth of *Lactobacillus* species. Specifically, the present invention discloses the use of tetrahydroiso-.alpha.-acids or hexahydro-.beta.-acids at a concn. effective for the inhibition of the growth of *S. aureus* without preventing the growth of *Lactobacillus*. The inhibition of *S. aureus* thus provides useful methods, compns. and products such as feminine hygiene products for treating the diseases assocd. with *S. aureus* infections and infestations, i.e., toxic shock syndrome, without disrupting the normal bacterial flora in the area of its application. The results of MIC assay of tetrahydroiso-.alpha.-acids and hexahydro-.beta.-acids on *S. aureus* and *Lactobacillus* show that *S. aureus* was much more sensitive to tetrahydroiso-.alpha.-acids and hexahydro-.beta.-acids than the *Lactobacillus* species tested. *Lactobacillus* exhibited strong growth in concns. of tetrahydroiso-.alpha.-acids and hexahydro-.beta.-acids as high as 12.5 ppm.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 12:31:28 ON 20 MAY 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 12:31:53 ON 20 MAY 2003

L1 267 S (HOP ACID) OR (HEXAHYDRO BETA ACID) OR (HEXAHYDRO BETA SALT)
L2 233 S STAPHYLOCOCCUS AUREUS
L3 70678 S LACTOBACILLUS
L4 0 S L1 (P) L2 (P) L3
L5 0 S L1 (P) L2
L6 15 S HEXAHYDROLUPULONE
L7 212726 S STAPHYLOCOCCUS AUREUS
L8 0 S (L1 OR L6) (P) L2
L9 11 S (L1 OR L6) (P) L7
L10 1 S L9 (P) L3

=> s (l1 or l6) (p) l3

L11 3 (L1 OR L6) (P) L3

=> duplicate remove l11

PROCESSING COMPLETED FOR L11

L12 3 DUPLICATE REMOVE L11 (0 DUPLICATES REMOVED)

=> d l12 1-3 ibib abs

L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:777605 CAPLUS

DOCUMENT NUMBER: 137:274412

TITLE: Antimicrobial compositions for aqueous systems containing hop acids

INVENTOR(S): Breen, Alexander W.; Cronan, John M., Jr.; Davis, Philip S.; Mayer, Michael J.; Singleton, Freddie L.

PATENT ASSIGNEE(S): Hercules Incorporated, USA

SOURCE: PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002078450	A1	20021010	WO 2001-US10005	20010328
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			WO 2001-US10005	20010328

OTHER SOURCE(S): MARPAT 137:274412

AB Methods of inhibiting the growth of organisms in aq. systems such as papermaking systems, cooling systems and process waters of various types, comprises adding to the aq. system a hop acid. Compns. comprising hop acids and papermaking suspensions or slurries, and/or additives, such as paper making additives, are also provided.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:283780 CAPLUS

DOCUMENT NUMBER: 134:300854

TITLE: Hop acids used for inhibition of Staphylococcus aureus

INVENTOR(S): Barney, Michael C.; Navarro, Alfonso L.; Ryder, David S.

PATENT ASSIGNEE(S): Miller Brewing Company, USA

SOURCE: PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001026647	A1	20010419	WO 2000-US27927	20001010
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1220665	A1	20020710	EP 2000-986192	20001010
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRIORITY APPLN. INFO.:				
US 1999-158810P P 19991012				
US 2000-664519 A 20000918				
WO 2000-US27927 W 20001010				

AB The present invention provides methods, products, and compns. for selectively inhibiting the growth of S. aureus without preventing the growth of ***Lactobacillus*** species. Specifically, the present invention discloses the use of ***tetrahydroiso*** -. ***alpha*** -. ***acids*** or ***hexahydro*** -. ***beta*** -. ***acids*** at a concn. effective for the inhibition of the growth of S. aureus without preventing the growth of ***Lactobacillus***. The inhibition of S. aureus thus provides useful methods, compns. and products such as feminine hygiene products for treating the diseases assocd. with S. aureus infections and infestations, i.e., toxic shock syndrome, without disrupting the normal bacterial flora in the area of its application. The results of MIC assay of ***tetrahydroiso*** -. ***alpha*** -. ***acids*** and ***hexahydro*** -. ***beta*** -. ***acids*** on S. aureus and ***Lactobacillus*** show that S. aureus was much more sensitive to ***tetrahydroiso*** -. ***alpha*** -. ***acids*** and ***hexahydro*** -. ***beta*** -. ***acids*** than the

Lactobacillus species tested. ***Lactobacillus*** exhibited strong growth in concns. of ***tetrahydroiso***. ***alpha*** acids*** and ***hexahydro***. ***beta*** acids*** as high as 12.5 ppm.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1992:192626 CAPLUS
DOCUMENT NUMBER: 116:192626
TITLE: Synthesis of hexahydrolupulone by catalytic hydrogenation and its use as an bacteriostatic
INVENTOR(S): Todd, Paul H., Jr.; Guzinski, James A.
PATENT ASSIGNEE(S): Kalamazoo Holdings, Inc., USA
SOURCE: U.S., 8 pp. Cont.-in-part of U.S. 4,918,240.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5082975	A	19920121	US 1990-485996	19900226
US 4918240	A	19900417	US 1988-232289	19880815
BE 1004239	A3	19921020	BE 1989-856	19890809
NL 8902050	A	19900301	NL 1989-2050	19890811
NL 193800	B	20000703		
NL 193800	C	20001106		
CA 1315804	A1	19930406	CA 1989-608174	19890811
AU 8939588	A1	19900215	AU 1989-39588	19890814
AU 619143	B2	19920116		
GB 2222160	A1	19900228	GB 1989-18505	19890814
GB 2222160	B2	19920108		
ZA 8906186	A	19910424	ZA 1989-6186	19890814
US 5166449	A	19921124	US 1991-710575	19910605
PRIORITY APPLN. INFO.:			US 1988-232289 A2	19880815
			US 1990-485996 A3	19900222

AB ***Hexahydrolupulone*** is prepd. from hop .beta.-acids by catalytic hydrogenation. The product is useful as an inhibitor of growth of bacilli and ***Lactobacilli***. The .beta.-acids are first pptd. to remove a no. of catalyst poisons using polyvalent metal oxides, hydroxides, or salts in alk. pH. The .beta.-acids are then hydrogenated at pH 4 using a Pt or Pd catalyst and three equiv. of H and the hydrogenation product is recovered by solvent extn. Yields of 85-95% ***hexahydrolupulone*** were achieved. ***Hexahydrolupulones*** were more stable in air than .beta.-acids. At 50-200 ppm ***hexahydrolupulone*** inhibited growth of ***Lactobacillus*** in skim milk.

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(FILE 'HOME' ENTERED AT 12:31:28 ON 20 MAY 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 12:31:53 ON 20 MAY 2003

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- L2 233 S STAPHYLOCOCCUS AUREUS
- L3 70678 S LACTOBACILLUS
- L4 0 S L1 (P) L2 (P) L3
- L5 0 S L1 (P) L2
- L6 15 S HEXAHYDROLUPULONE
- L7 212726 S STAPHYLOCOCCUS AUREUS
- L8 0 S (L1 OR L6) (P) L2
- L9 11 S (L1 OR L6) (P) L7
- L10 1 S L9 (P) L3
- L11 3 S (L1 OR L6) (P) L3
- L12 3 DUPLICATE REMOVE L11 (0 DUPLICATES REMOVED)

=> s absorbent or tampon or (wound dressing) or suppository or (disposable diaper) or (sanitary na
L13 73509 ABSORBENT OR TAMPON OR (WOUND DRESSING) OR SUPPOSITORY OR (DISPO
SABLE DIAPER) OR (SANITARY NAPKIN)


```
=> s l13 (p) (l1 or l6)
L14          1 L13 (P) (L1 OR L6)

=> s l14 not (l10 or l12)
L15          0 L14 NOT (L10 OR L12)

=> s vaginal (P) (l1 or l6)
L16          0 VAGINAL (P) (L1 OR L6)

=> s l7 (p) (barrier contrceptive)
L17          0 L7 (P) (BARRIER CONTRCEPTIVE)

=> s (l1 or l6) (p) (BARRIER CONTRCEPTIVE)
L18          0 (L1 OR L6) (P) (BARRIER CONTRCEPTIVE)

=> d his
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(FILE 'HOME' ENTERED AT 12:31:28 ON 20 MAY 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT
12:31:53 ON 20 MAY 2003

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L1          267 S (HOP ACID) OR (HEXAHYDRO BETA ACID) OR (HEXAHYDRO BETA SALT)
L2          233 S STAPHYLOCOCCUS AUREUS
L3          70678 S LACTOBACILLUS
L4          0 S L1 (P) L2 (P) L3
L5          0 S L1 (P) L2
L6          15 S HEXAHYDROLUPULONE
L7          212726 S STAPHYLOCOCCUS AUREUS
L8          0 S (L1 OR L6) (P) L2
L9          11 S (L1 OR L6) (P) L7
L10         1 S L9 (P) L3
L11         3 S (L1 OR L6) (P) L3
L12         3 DUPLICATE REMOVE L11 (0 DUPLICATES REMOVED)
L13         73509 S ABSORBENT OR TAMPON OR (WOUND DRESSING) OR SUPPOSITORY OR (DI
L14         1 S L13 (P) (L1 OR L6)
L15         0 S L14 NOT (L10 OR L12)
L16         0 S VAGINAL (P) (L1 OR L6)
L17         0 S L7 (P) (BARRIER CONTRCEPTIVE)
L18         0 S (L1 OR L6) (P) (BARRIER CONTRCEPTIVE)
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COST IN U.S. DOLLARS          SINCE FILE      TOTAL
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FULL ESTIMATED COST          90.39      90.60

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                               ENTRY      SESSION
CA SUBSCRIBER PRICE          -2.60      -2.60
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